

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: WASHBURN CORNER POND	Lake Area (ha): 37.84
Town: SPRINGFIELD	Maximum depth (m): 2.9
County: Sullivan	Mean depth (m): 0.8
River Basin: Connecticut	Volume (m ³): 305500
Latitude: 43°31'44" N	Relative depth: 0.4
Longitude: 72°04'26" W	Shore configuration: 2.38
Elevation (ft): 990	Areal water load (m/yr): 34.61
Shore length (m): 5200	Flushing rate (yr ⁻¹): 42.90
Watershed area (ha): 2577.0	P retention coeff.: 0.41
% watershed ponded: 0.2	Lake type: natural w/dam

BIOLOGICAL:

		4 January 1995	30 August 1994
DOM. PHYTOPLANKTON (% TOTAL)	#1	NO PHYTOPLANKTON	DINOBRYON 35%
	#2	SAMPLES COLLECTED	MICROCYSTIS 25%
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			4.20
DOM. ZOOPLANKTON (% TOTAL)	#1	NO ZOOPLANKTON	ACTINOPHRYS 44%
	#2	SAMPLES COLLECTED	NAUPLIUS LARVA 39%
	#3		
ROTIFERS/LITER			9
MICROCRUSTACEA/LITER			47
ZOOPLANKTON ABUNDANCE (#/L)			107
VASCULAR PLANT ABUNDANCE			Very abundant
SECCHI DISK TRANSPARENCY (m)			1.4 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		8.6	7.3
BACTERIA (E. coli, #/100 ml)	#1		1
	#2		< 1
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³): None
Anoxic volume (m³): None

CHEMICAL:

Lake: WASHBURN CORNER POND
Town: SPRINGFIELD

	4 January 1995		30 August 1994		
DEPTH (m)	1.0		1.0		
pH (units)	6.2				
A.N.C. (Alkalinity)	5.2				
NITRATE NITROGEN	0.18		< 0.05		
TOTAL KJELDAHL NITROGEN	0.17		0.50		
TOTAL PHOSPHORUS	0.007		0.018		
CONDUCTIVITY (μ mhos/cm)	60.4		61.2		
APPARENT COLOR (cpu)	44		65		
MAGNESIUM			0.70		
CALCIUM			4.1		
SODIUM			6.3		
POTASSIUM			0.25		
CHLORIDE	10		9		
SULFATE	6		3		
TN : TP	50		28		
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1994

D.O. S.D. PLANT CHL TOTAL CLASS

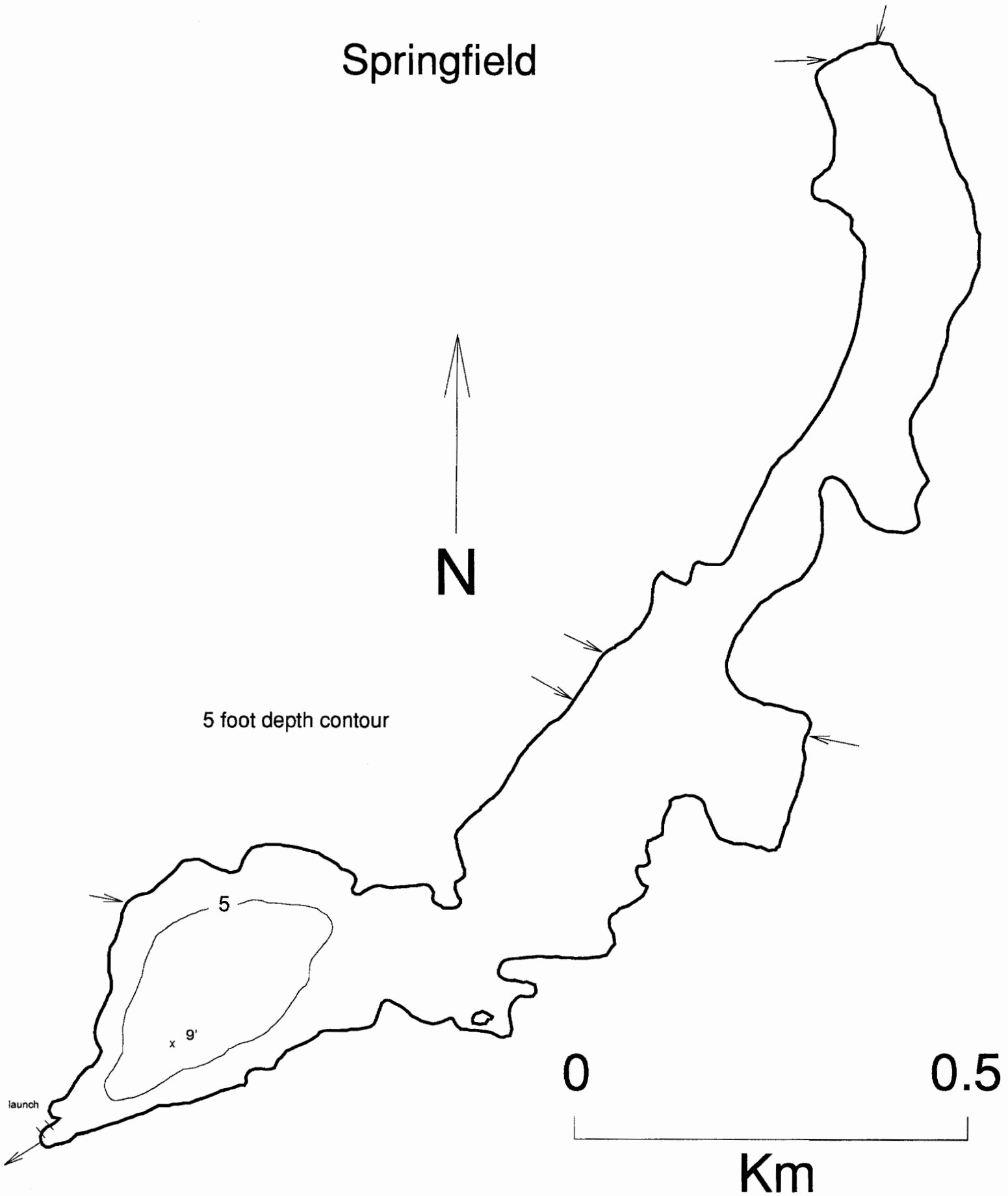
**	3	6	1	10	Eutro.
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COMMENTS:

1. AKA McDaniels Marsh or Bog Brook Pond.
2. This is a shallow, flooded wetland area that is managed by the Fish and Game Department as McDaniels Marsh Wildlife Management Area. It is listed in DES' Clean Lakes database as a wetland, not a lake.
3. Good boat launch site, managed by Fish & Game, but the area is not suitable for large motors due to the plant density.

Washburn Corner Pond

Springfield



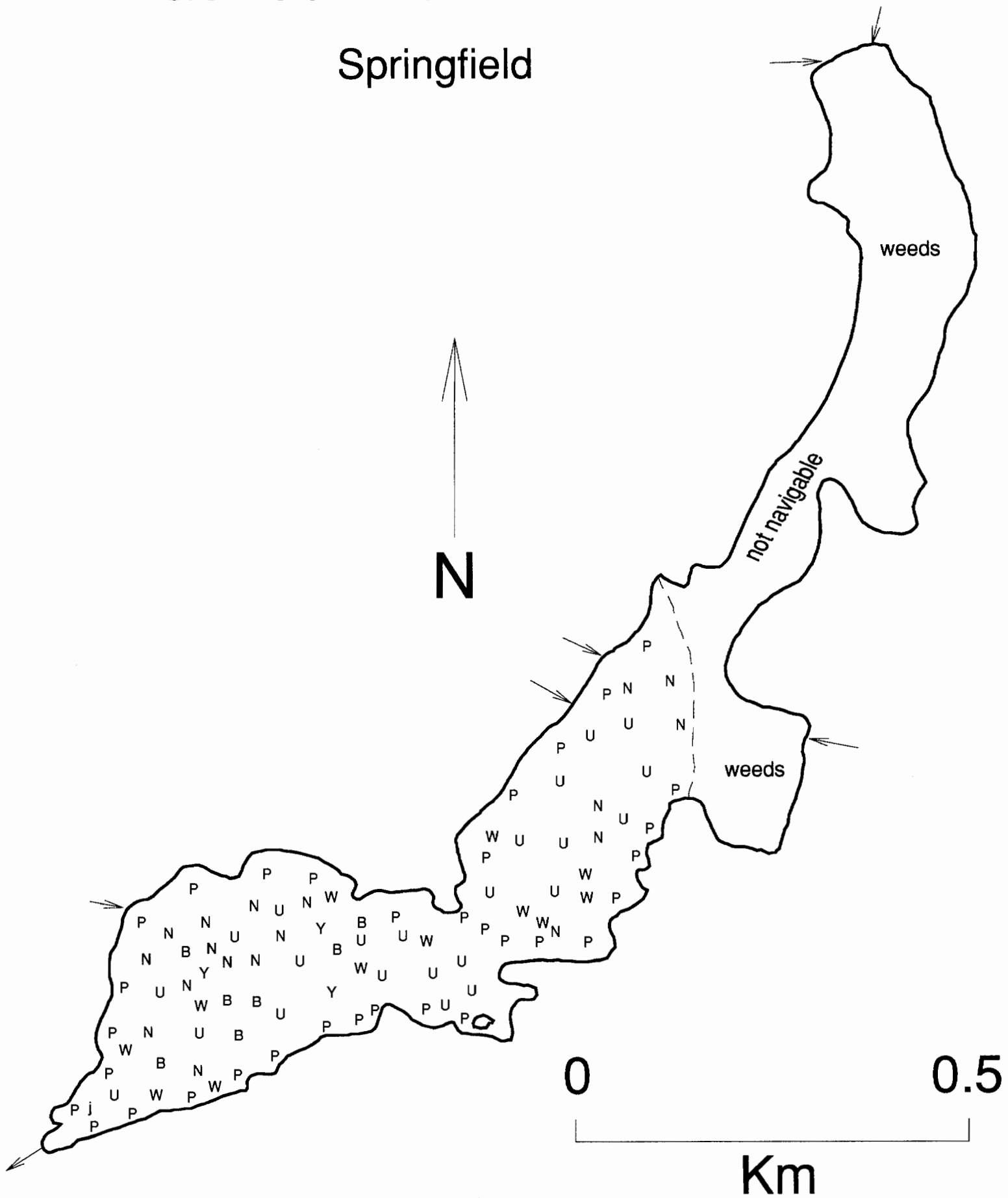
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Washburn Corner Pond

Springfield



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